

What is Claimed Is:

1 1. A system for converting and retrofitting a bicycle wheel having a tire with an inner cavity  
2 engaged to a rim with an inner channel, comprising:  
3 a strip of rim tape disposed within said channel;  
4 a strip of sealing tape disposed within said channel, wherein said sealing tape completely  
5 covers said rim tape; and  
6 a liquid sealing compound disposed within said channel and said cavity.

1 2. The system of claim 1, wherein said sealing compound comprises:

2 about 3 parts by volume liquid latex;  
3 about 7 parts by volume water; and  
4 about 6 parts by volume propylene glycol.

5 3. The system of claim 1 further comprising a valve stem inserted through a predetermined  
6 portion of said rim tape, said sealing tape, and said rim tape.

1 4. The system of claim 2, wherein said sealing compound further comprises about .25 parts by  
2 volume of an aggregate material.

1 5. The system of claim 4, wherein said aggregate material comprises particles ranging in  
2 diameter from about 0.15 millimeters to about 0.60 millimeters.

1 6. The system of claim 4, wherein said aggregate material comprises cornmeal.

1 7. A compound for sealing punctures in a tubeless bicycle tire as they are formed, comprising:

2 about 3 parts by volume liquid latex;

3 about 7 parts by volume water; and

4 about 6 parts by volume propylene glycol.

1 8. The compound of claim 7, further comprising about .25 parts by volume of an aggregate  
2 material.

3 9. The compound of claim 8, wherein said aggregate material comprises particles ranging in  
4 diameter from about 0.15 millimeters to about 0.60 millimeters.

5 10. The compound of claim 9, wherein said aggregate material comprises cornmeal.

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1 11. A method for converting and retrofitting a bicycle wheel having a rim with a channel and  
2 opposing first and second ridges and a tire with a cavity and first and second opposing beads,  
3 comprising the steps of:  
4 positioning a strip of sealing tape in said channel;  
5 engaging said first bead with said first ridge;  
6 injecting a predetermined amount of a sealing compound into said channel and said  
7 cavity; and  
8 engaging said second bead with said second ridge.

10 12. The method of claim 11, further comprising installing a valve stem through said rim tape and  
11 said rim.

12 13. The method of claim 11, further comprising inflating said tire and installing said tire on a  
13 bicycle.

1 14. A system for converting and retrofitting a bicycle wheel having a tire with an inner cavity  
2 and opposing first and second beads engaged to a rim with an inner channel and first and second  
3 opposing ridges, said system comprising:

4 a rim strip having first and second outer edges separated by a median portion disposed  
5 within said channel, wherein said first and second outer edges engage said first and second beads  
6 and said first and second ridges;

7 a valve stem integrally formed with said rim strip and having a hole formed therethrough  
8 which is in communication with said inner cavity; and

9 a liquid sealing compound disposed within said channel and said cavity.

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15. The system of claim 14, wherein the said first and second outer edges are thicker in cross-  
section than said median portion of said rim strip.